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(54) PRODUCTION OF L-GLUTAMIC ACID AND L-PROLINE

(57)Abstract:

PURPOSE: To produce L-glutamic acid and L-proline, by culturing a microorganism belonging to Corynebacterium genus or Brevibacterium genus and containing a specific recombinant DNA.

CONSTITUTION: A microorganism belonging to Corynebacterium genus or Brevibacterium genus and containing a recombinant DNA derived from a vector DNA and a DNA fragment carrying genetic information participating in the synthesis of citric acid synthase (CS) of microorganism is cultured in a medium. Concrete examples of the transformant strain having a recombinant DNA containing a CS gene are Corynebacterium glutamicum K70 (FERM BP-1161) produced by including a recombinant plasmid pEgltA-2 containing CS gene of E.coli in Corynebacterium glutamicum ATCC 31833 strain and Corynebacterium glutamicum K71 (FERM BP-1162) produced by including a recombinant plasmid pCgltA-1 containing CS gene of Corynebacterium glutamicum in Corynebacterium glutamicum ATCC 31833.

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